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(71) Applicant *(for all designated States except US)*: **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 5621 BA Eindhoven (NL).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **BOURGE, Arnaud** [FR/FR]; 156 Boulevard Haussmann, F-75008 Paris (FR). **BARRAU, Eric** [FR/FR]; 156 Boulevard Haussmann, F-75008 Paris (FR). **BENETIERE, Marion** [FR/FR]; 156 Boulevard Haussmann, F-75008 Paris (FR).

(74) Agent: **LANDOUSY, Christian**; Société Civile SPID, 156 Boulevard Haussmann, F-75008 Paris (FR).

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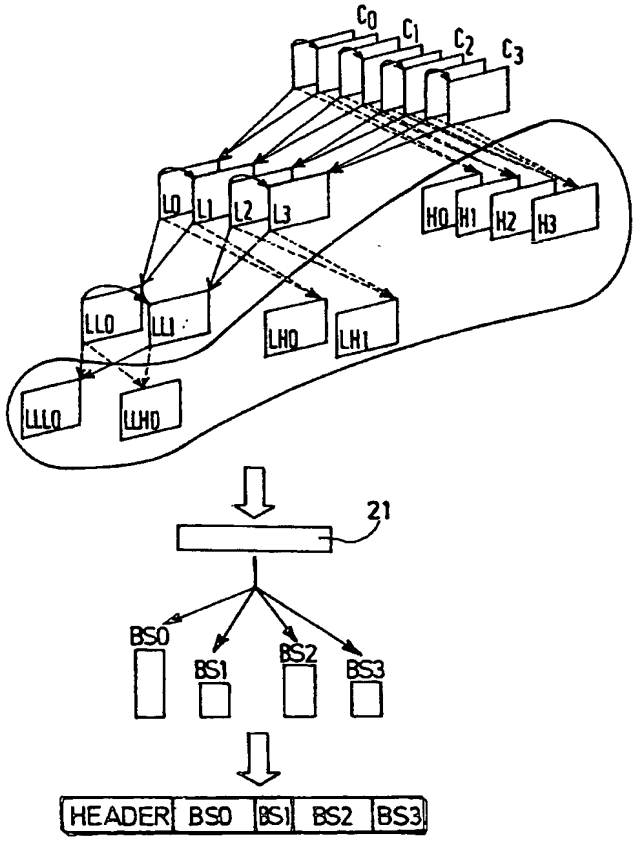
(54) Title: 3D WAVELET VIDEO CODING AND DECODING METHOD AND CORRESPONDING DEVICE



(57) Abstract: The invention relates to a three-dimensional (3D) video coding method applied to a bitstream corresponding to an original video sequence that has been divided into successive groups of frames (GOFs). This coding method, applies to each successive GOF first a spatio-temporal analysis step, itself comprising a motion estimation sub-step, a motion compensated temporal filtering sub-step and a spatial analysis sub-step, and then an encoding step, itself comprising an entropy coding sub-step, performed on the low and high frequency temporal subbands resulting from the spatio-temporal analysis step and on motion vectors obtained by means of said motion estimation step, and an arithmetic coding sub-step, applied to the coded sequence thus obtained. According to the invention, the frequency subbands available at the end of the analysis step are coded in an order that corresponds to a reconstruction of the couples of frames in their original order, the bits necessary to decode the first couple being at the beginning of the coded bitstream, followed by the extra bits necessary to decode the second couple, and so on, up to the last couple.

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 03/03159

A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
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Name and mailing address of the ISA	Authorized officer
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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